

TRAFFIC ELECTRONIC TECHNICIAN

DISTINGUISHING FEATURES

The fundamental reason the Traffic Electronic Technician position exists is to install, maintain, and repair traffic signal equipment; modify existing traffic signal equipment to improve operations; design and build test equipment in the Field Services Division of the Municipal Services Department. This classification does not supervise. Work is performed under general supervision of the Traffic Signal Supervisor.

ESSENTIAL FUNCTIONS

Responds to emergency traffic signal breakdowns; tests traffic signal components to diagnose reason for malfunction; closes down signal operation if necessary to perform repair work; debugs malfunctioning component or replaces damaged or worn out parts on site or in shop; places repaired or substitute component in control box to restore operation of signal; conducts field inspections of all city traffic signal components and performs preventive maintenance on equipment; and modifies existing equipment to bring up to current operating specifications.

Performs bench work repair, preventative maintenance and design work on traffic signal components by replacing and testing internal components and fail/safe equipment, and designing entire modules. Repairs electronic equipment including micro-processor to component level. Maintains and repairs communication equipment used for synchronizing traffic signals.

Performs periodic cabinet maintenance at each signal intersection; checks all equipment and timing to insure accuracy; changes malfunctioning devices as required; maintains and updates computerized inventory and maintenance records; designs and builds test sets to help test and maintain equipment.

Maintains and repairs airport signaling systems, including V.A.S.I., R.E.I.L and runway lighting.

Assists in the construction and troubleshooting of new signal intersections; and repairs electrical or electronic fault in field wiring or cabinet assembly.

Responds to citizen questions or reports.

Attendance and punctuality are essential functions of this position.

MINIMUM QUALIFICATIONS

Knowledge, Skills, and Abilities

Knowledge of:

The principles and practices of electronics and electricity; and of the operation and maintenance of traffic signal controls and electronic testing devices.

Ability to:

Use electronic testing and diagnostic equipment and mechanical drafting.

Perform sophisticated design, construction, and maintenance on traffic signal cabinets and related equipment; read and interpret blueprints and schematic diagrams.

Perform electrical and electronics work and work safely around heavy traffic and electricity.

Operate a personal computer to check e-mail, enter productivity information, and complete

timesheets.

Operate telephone and radio communications equipment properly.

Use visual and manual dexterity skills.

Work in extreme weather conditions; lift up to 50 pounds or more on an occasional basis; visually distinguish the full range of the color spectrum; and have the ability to climb up and down ladders; and bend and stoop repeatedly.

Establish and maintain effective working relationships with co-workers, supervisors, other departments and the general public.

Communicate effectively, both orally and in writing, with co-workers, supervisors, contractors and the general public.

Demonstrate the willingness to assume ownership in completion of assigned tasks.

Complete work orders, routes, time sheets and safety checklists in a complete and readable manner.

Maintain regular consistent attendance and punctuality.

Work a flexible schedule including evenings and weekends.

Education & Experience

Three years experience in electronics, including 2 years experience in the maintenance of traffic signal electronic components or in a related capacity; and electronic technician diploma or an Associate's degree in electronic technology; and good experience in test or repair of microprocessor based equipment.

Requires possession of a valid Arizona Driver's License with no major driving citations in the last 39 months.

FLSA Status: Non-exempt

HR Ordinance Status: Classified